Columbia Analytical Services, Inc.
1317 S. 13th Avenue, Kelso, WA 98626 360.577.7222 360.636.1068 (fax) www.caslab.com

February 16, 2011 Analytical Report for Service Request No: K1100772

Al Deichsel
Georgia Pacific Corporation
92326 Taylorville Road
Clatskanie, OR 97016

**RE: Wauna Priority Pollutants**

Dear Al:

Enclosed are the results of the samples submitted to our laboratory on January 28, 2011. For your reference, these analyses have been assigned our service request number K1100772.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3358. You may also contact me via Email at LHuckestein@caslab.com.

Respectfully submitted,

**Columbia Analytical Services, Inc.**

Lynda Huckestein
Client Services Manager

LH/dlm

## Acronyms

| | |
|---|---|
| ASTM | American Society for Testing and Materials |
| A2LA | American Association for Laboratory Accreditation |
| CARB | California Air Resources Board |
| CAS Number | Chemical Abstract Service registry Number |
| CFC | Chlorofluorocarbon |
| CFU | Colony-Forming Unit |
| DEC | Department of Environmental Conservation |
| DEQ | Department of Environmental Quality |
| DHS | Department of Health Services |
| DOE | Department of Ecology |
| DOH | Department of Health |
| EPA | U. S. Environmental Protection Agency |
| ELAP | Environmental Laboratory Accreditation Program |
| GC | Gas Chromatography |
| GC/MS | Gas Chromatography/Mass Spectrometry |
| LUFT | Leaking Underground Fuel Tank |
| M | Modified |
| MCL | Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA. |
| MDL | Method Detection Limit |
| MPN | Most Probable Number |
| MRL | Method Reporting Limit |
| NA | Not Applicable |
| NC | Not Calculated |
| NCASI | National Council of the Paper Industry for Air and Stream Improvement |
| ND | Not Detected |
| NIOSH | National Institute for Occupational Safety and Health |
| PQL | Practical Quantitation Limit |
| RCRA | Resource Conservation and Recovery Act |
| SIM | Selected Ion Monitoring |
| TPH | Total Petroleum Hydrocarbons |
| tr | Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL. |

## Inorganic Data Qualifiers

| | |
|---|---|
| * | The result is an outlier. See case narrative. |
| # | The control limit criteria is not applicable. See case narrative. |
| B | The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards. |
| E | The result is an estimate amount because the value exceeded the instrument calibration range. |
| J | The result is an estimated value that was detected outside the quantitation range. |
| U | The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.1 definition*: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution. |
| i | The MRL/MDL or LOQ/LOD is elevated due to a matrix interference. |
| X | See case narrative. |
| Q | See case narrative. One or more quality control criteria was outside the limits. |
| H | In accordance with the 2007 EPA Methods Update Rule published in the Federal Register, the holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory. |

## Metals Data Qualifiers

| | |
|---|---|
| # | The control limit criteria is not applicable. See case narrative. |
| J | The result is an estimated value that was detected outside the quantitation range. |
| E | The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample. |
| M | The duplicate injection precision was not met. |
| N | The Matrix Spike sample recovery is not within control limits. See case narrative. |
| S | The reported value was determined by the Method of Standard Additions (MSA). |
| U | The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.1 definition*: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution. |
| W | The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance. |
| i | The MRL/MDL or LOQ/LOD is elevated due to a matrix interference. |
| X | See case narrative. |
| + | The correlation coefficient for the MSA is less than 0.995. |
| Q | See case narrative. One or more quality control criteria was outside the limits. |

## Organic Data Qualifiers

| | |
|---|---|
| * | The result is an outlier. See case narrative. |
| # | The control limit criteria is not applicable. See case narrative. |
| A | A tentatively identified compound, a suspected aldol-condensation product. |
| B | The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards. |
| C | The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data. |
| D | The reported result is from a dilution. |
| E | The result is an estimate amount because the value exceeded the instrument calibration range. |
| J | The result is an estimated value that was detected outside the quantitation range. |
| N | The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed. |
| P | The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results. |
| U | The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.1 definition*: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution. |
| i | The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference. |
| X | See case narrative. |
| Q | See case narrative. One or more quality control criteria was outside the limits. |

## Additional Petroleum Hydrocarbon Specific Qualifiers

| | |
|---|---|
| F | The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard. |
| L | The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard. |
| H | The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard. |
| O | The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard. |
| Y | The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard. |
| Z | The chromatographic fingerprint does not resemble a petroleum product. |

# Columbia Analytical Services

# CHAIN OF CUSTODY

SR#: K1100772

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

PAGE _____ OF _____ COC #_____

PROJECT NAME: Wauna Priority Pollutants
PROJECT NUMBER:
PROJECT MANAGER: Al Dechsel
COMPANY/ADDRESS: GP Wauna
CITY/STATE/ZIP:
E-MAIL ADDRESS:
PHONE #: FAX #:
SAMPLER'S SIGNATURE:

| SAMPLE I.D. | DATE | TIME | LAB I.D. | MATRIX | NUMBER OF CONTAINERS | Cyanide X | Metals, Total or Dissolved (See list below) | PAHS 8310 ☐ SIM ☐ | Chlorophenolics - 8151M PCP ☐ Tri ☐ Tetra ☐ 8081A ☐ 8141A ☐ 8151A ☐ | Pesticides/Herbicides 608 ☐ | PCB's Aroclors ☐ Congeners ☐ | Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐ | Fuel Fingerprint (FIQ) ☐ NW-HCID Screen | Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐ | Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐ 8270LL ☐ | Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ | Hex-Chrom ☐ | pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle) | NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3 | TOX 9020 ☐ AOX 1650 ☐ 506 ☐ | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Final Effluent | 1/26 | 7AM | | W | 1 | | 1 | | | | | | | | | | | | | | |
| Final Effluent | 1/26 | 10AM | | W | 1 | | 1 | | | | | | | | | | | | | | |
| " | 1/26 | 1PM | | W | 1 | | 1 | | | | | | | | | | | | | | |
| " | 1/26 | 3PM | | W | 1 | | 1 | | | | | | | | | | | | | | |
| " | 1/27 | 5AM | | W | 4 | | | 2 | | | | | | | | | | | | | |

**REPORT REQUIREMENTS**

- X I. Routine Report: Method Blank, Surrogate, as required
- ___ II. Report Dup., MS, MSD as required
- ___ III. Data Validation Report (includes all raw data)
- ___ IV. CLP Deliverable Report
- ___ V. EDD

**INVOICE INFORMATION**

P.O. # _____
Bill To: _____

**TURNAROUND REQUIREMENTS**

____ 24 hr. ____ 48 hr.
____ 5 Day
____ Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al (As) Sb Ba (Be) B Ca (Cd) Co (Cr) (Cu) Fe (Pb) Mg Mn Mo (Ni) K (Ag) Na (Se) Sr (Tl) (Sn) V (Zn) Hg

Dissolved Metals: Al (As) Sb Ba (Be) B Ca (Cd) Co (Cr) (Cu) Fe (Pb) Mg Mn Mo (Ni) K (Ag) Na Se Sr (Tl) (Sn) V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

Composite CN samples

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

| RELINQUISHED BY: | RECEIVED BY: | RELINQUISHED BY: | RECEIVED BY: |
|---|---|---|---|
| Signature: | Signature: | Signature: | Signature: |
| Printed Name: Al Dechsel | Printed Name: Colleen Schroeder | Printed Name: Colleen Schroeder | Printed Name: SHOPKINS |
| Date/Time: 1/28/11 9AM | Date/Time: 01/28/11 0745 | Date/Time: 01/28/11 0840 | Date/Time: 1/28/11 0840 |
| Firm: GP | Firm: CAS | Firm: CAS | Firm: CAS |

RCOC #1 03/10

4

**Columbia Analytical Services, Inc.**
**Cooler Receipt and Preservation Form**

PC Lynda

Client / Project: CoP Wauna Service Request K11 00772

Received: 01/28/11 Opened: 01/28/11 By: dlr Unloaded: 1/28/11 By: SM

1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* (*Courier*) *Hand Delivered*
2. Samples were received in: (circle) (*Cooler*) *Box* *Envelope* *Other*_____ *NA*
3. Were custody seals on coolers? (NA) Y N If yes, how many and where?_____
   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

| Cooler Temp °C | Temp Blank °C | Thermometer ID | Cooler/COC ID NA | Tracking Number NA | Filed |
|---|---|---|---|---|---|
| 2.1°C | 2.8 | SMO-306 | N/A | N/A | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

7. Packing material used. *Inserts* *Baggies* (*Bubble Wrap*) (*Gel Packs*) *Wet Ice* *Sleeves* *Other*_____
8. Were custody papers properly filled out (ink, signed, etc.)? NA (Y) N
9. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA (Y) N
10. Were all sample labels complete (i.e analysis, preservation, etc.)? NA (Y) N
11. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA (Y) N
12. Were appropriate bottles/containers and volumes received for the tests indicated? NA (Y) N
13. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* (NA) Y N
14. Were VOA vials received without headspace? *Indicate in the table below.* (NA) Y N
15. Was C12/Res negative? (NA) Y N

| Sample ID on Bottle | Sample ID on COC | Identified by: |
|---|---|---|
| | | |
| | | |
| | | |

| Sample ID | Bottle Count Bottle Type | Out of Temp | Head-space | Broke | pH | Reagent | Volume added | Reagent Lot Number | Initials | Time |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

SHORT HOLD TIME

*Notes, Discrepancies, & Resolutions:*
No pH ✓ due to sample matrix

*Page 1 of*____

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Georgia-Pacific Consumer Products LP | **Service Request:** | K1100772 |
| **Project:** | Wauna Priority Pollutants | **Date Collected:** | 1/26/11 |
| **Sample Matrix:** | Water | **Date Received:** | 1/28/11 |
| **Prep Method:** | Method | **Units:** | mg/L |
| **Analysis Method:** | 335.4 | **Basis:** | NA |

### Cyanide, Total

| Sample Name | Lab Code | Result | Q | MRL | Dilution Factor | Date Extracted | Date Analyzed | Note |
|---|---|---|---|---|---|---|---|---|
| Final Effluent CN Composite | K1100772-005 | ND | U | 0.010 | 1 | 2/ 3/11 | 2/4/11 16:00 | |
| Method Blank | K1100772-MB | ND | U | 0.010 | 1 | 2/ 3/11 | 2/4/11 16:00 | |

## COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Georgia-Pacific Consumer Products LP | **Service Request:** | K1100772 |
| **Project:** | Wauna Priority Pollutants | **Date Collected:** | 1/27/11 |
| **Sample Matrix:** | Water | **Date Received:** | 1/28/11 |
| **Prep Method:** | Method | **Units:** | mg/L |
| **Analysis Method:** | 420.1 | **Basis:** | NA |

### Phenolics, Total

| Sample Name | Lab Code | Result | Q | MRL | Dilution Factor | Date Extracted | Date Analyzed | Note |
|---|---|---|---|---|---|---|---|---|
| Final Effluent | K1100772-006 | **0.156** | | 0.010 | 1 | 2/ 4/11 | 2/4/11 17:27 | |
| Method Blank | K1100772-MB | ND | U | 0.010 | 1 | 2/ 4/11 | 2/4/11 17:27 | |

## Columbia Analytical Services

**- Cover Page -**
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** Georgia-Pacific Consumer Products LP
**Project Name:** Wauna Priority Pollutants
**Project No.:**
**Service Request:** K1100772

| Sample Name: | Lab Code: |
|---|---|
| Final Effluent | K1100772-006 |
| Final Effluent | K1100772-006DISS |
| Method Blank | K1100772-MB |

**Comments:**

**Approved By:** 3C **Date:** 2/16/11

## Metals

- 1 -

### INORGANIC ANALYSIS DATA PACKAGE

| | | | |
|---|---|---|---|
| **Client:** | Georgia-Pacific Consumer Product | **Service Request:** | K1100772 |
| **Project No.:** | NA | **Date Collected:** | 01/27/11 |
| **Project Name:** | Wauna Priority Pollutants | **Date Received:** | 01/28/11 |
| **Matrix:** | WATER | **Units:** | ug/L |
| | | **Basis:** | NA |

**Sample Name:** Final Effluent **Lab Code:** K1100772-006

| Analyte | Analysis Method | MRL | Dilution Factor | Date Extracted | Date Analyzed | Result | C | Q |
|---|---|---|---|---|---|---|---|---|
| Aluminum | 200.8 | 4.0 | 1.0 | 02/14/11 | 02/15/11 | 396 | | |
| Arsenic | 200.8 | 1.0 | 1.0 | 02/14/11 | 02/15/11 | 1.0 | U | |
| Beryllium | 200.8 | 0.04 | 1.0 | 02/14/11 | 02/15/11 | 0.04 | U | |
| Cadmium | 200.8 | 0.04 | 1.0 | 02/14/11 | 02/15/11 | 0.07 | | |
| Chromium | 200.8 | 0.4 | 1.0 | 02/14/11 | 02/15/11 | 1.8 | | |
| Copper | 200.8 | 0.2 | 1.0 | 02/14/11 | 02/15/11 | 2.4 | | |
| Lead | 200.8 | 0.04 | 1.0 | 02/14/11 | 02/15/11 | 0.46 | | |
| Mercury | 245.1 | 0.2 | 1.0 | 02/04/11 | 02/07/11 | 0.2 | U | |
| Nickel | 200.8 | 0.4 | 1.0 | 02/14/11 | 02/15/11 | 1.4 | | |
| Selenium | 200.8 | 2.0 | 1.0 | 02/14/11 | 02/15/11 | 2.0 | U | |
| Silver | 200.8 | 0.04 | 1.0 | 02/14/11 | 02/15/11 | 0.04 | U | |
| Thallium | 200.8 | 0.04 | 1.0 | 02/14/11 | 02/15/11 | 0.04 | U | |
| Tin | 200.8 | 0.2 | 1.0 | 02/14/11 | 02/15/11 | 1.1 | | |
| Zinc | 200.8 | 1.0 | 1.0 | 02/14/11 | 02/15/11 | 34.1 | | |

**% Solids:** 0.0

Comments:

## Metals

- 1 -

### INORGANIC ANALYSIS DATA PACKAGE

| | | | |
|---|---|---|---|
| **Client:** | Georgia-Pacific Consumer Product | **Service Request:** | K1100772 |
| **Project No.:** | NA | **Date Collected:** | 01/27/11 |
| **Project Name:** | Wauna Priority Pollutants | **Date Received:** | 01/28/11 |
| **Matrix:** | WATER | **Units:** | ug/L |
| | | **Basis:** | NA |

**Sample Name:** Final Effluent **Lab Code:** K1100772-006DISS

| Analyte | Analysis Method | MRL | Dilution Factor | Date Extracted | Date Analyzed | Result | C | Q |
|---|---|---|---|---|---|---|---|---|
| Arsenic | 200.8 | 1.0 | 1.0 | 02/14/11 | 02/15/11 | 1.0 | U | |
| Beryllium | 200.8 | 0.04 | 1.0 | 02/14/11 | 02/15/11 | 0.04 | U | |
| Cadmium | 200.8 | 0.04 | 1.0 | 02/14/11 | 02/15/11 | 0.06 | | |
| Chromium | 200.8 | 0.4 | 1.0 | 02/14/11 | 02/15/11 | 1.6 | | |
| Copper | 200.8 | 0.2 | 1.0 | 02/14/11 | 02/15/11 | 2.2 | | |
| Lead | 200.8 | 0.04 | 1.0 | 02/14/11 | 02/15/11 | 0.39 | | |
| Mercury | 245.1 | 0.2 | 1.0 | 02/04/11 | 02/07/11 | 0.2 | U | |
| Nickel | 200.8 | 0.4 | 1.0 | 02/14/11 | 02/15/11 | 1.2 | | |
| Silver | 200.8 | 0.04 | 1.0 | 02/14/11 | 02/15/11 | 0.04 | U | |
| Thallium | 200.8 | 0.04 | 1.0 | 02/14/11 | 02/15/11 | 0.04 | U | |
| Tin | 200.8 | 0.2 | 1.0 | 02/14/11 | 02/15/11 | 1.5 | | |
| Zinc | 200.8 | 1.0 | 1.0 | 02/14/11 | 02/15/11 | 15.7 | | |

**% Solids:** 0.0

Comments:

## Metals

- 1 -

### INORGANIC ANALYSIS DATA PACKAGE

**Client:** Georgia-Pacific Consumer Product **Service Request:** K1100772

**Project No.:** NA **Date Collected:**

**Project Name:** Wauna Priority Pollutants **Date Received:**

**Matrix:** WATER **Units:** ug/L

**Basis:** NA

**Sample Name:** Method Blank **Lab Code:** K1100772-MB

| Analyte | Analysis Method | MRL | Dilution Factor | Date Extracted | Date Analyzed | Result | C | Q |
|---|---|---|---|---|---|---|---|---|
| Aluminum | 200.8 | 2.0 | 1.0 | 02/14/11 | 02/15/11 | 2.0 | U | |
| Arsenic | 200.8 | 0.5 | 1.0 | 02/14/11 | 02/15/11 | 0.5 | U | |
| Beryllium | 200.8 | 0.02 | 1.0 | 02/14/11 | 02/15/11 | 0.02 | U | |
| Cadmium | 200.8 | 0.02 | 1.0 | 02/14/11 | 02/15/11 | 0.02 | U | |
| Chromium | 200.8 | 0.2 | 1.0 | 02/14/11 | 02/15/11 | 0.2 | U | |
| Copper | 200.8 | 0.1 | 1.0 | 02/14/11 | 02/15/11 | 0.1 | U | |
| Lead | 200.8 | 0.02 | 1.0 | 02/14/11 | 02/15/11 | 0.02 | U | |
| Mercury | 245.1 | 0.2 | 1.0 | 02/04/11 | 02/07/11 | 0.2 | U | |
| Nickel | 200.8 | 0.2 | 1.0 | 02/14/11 | 02/15/11 | 0.2 | U | |
| Selenium | 200.8 | 1.0 | 1.0 | 02/14/11 | 02/15/11 | 1.0 | U | |
| Silver | 200.8 | 0.02 | 1.0 | 02/14/11 | 02/15/11 | 0.02 | U | |
| Thallium | 200.8 | 0.02 | 1.0 | 02/14/11 | 02/15/11 | 0.02 | U | |
| Tin | 200.8 | 0.1 | 1.0 | 02/14/11 | 02/15/11 | 0.1 | U | |
| Zinc | 200.8 | 0.5 | 1.0 | 02/14/11 | 02/15/11 | 0.5 | U | |

**% Solids:** 0.0

Comments:

Columbia Analytical Services™ 1317 S. 13th Avenue, Kelso, WA 98626 360.577.7222 360.636.1068 (fax) www.caslab.com

February 23, 2011 Analytical Report for Service Request No: K1100772

Al Deichsel
Georgia Pacific Corporation
92326 Taylorville Road
Clatskanie, OR 97016

**RE: Wauna Priority Pollutants**

Dear Al:

Enclosed are the additional results for the samples submitted to our laboratory on January 28, 2011. For your reference, these analyses have been assigned our service request number K1100772.

The result for Antimony was added to the report as requested,

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3358. You may also contact me via Email at LHuckestein@caslab.com.

Respectfully submitted,

**Columbia Analytical Services, Inc.**

Lynda Huckestein
Client Services Manager

LH/lb

## Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

| | | | |
|---|---|---|---|
| Client: | Georgia-Pacific Consumer Product | Service Request: | K1100772 |
| Project No.: | NA | Date Collected: | 01/27/11 |
| Project Name: | Wauna Priority Pollutants | Date Received: | 01/28/11 |
| Matrix: | WATER | Units: | ug/L |
| | | Basis: | NA |

Sample Name: Final Effluent  Lab Code: K1100772-006

| Analyte | Analysis Method | MRL | Dilution Factor | Date Extracted | Date Analyzed | Result | C | Q |
|---|---|---|---|---|---|---|---|---|
| Aluminum | 200.8 | 4.0 | 1.0 | 02/14/11 | 02/15/11 | 396 | | |
| Antimony | 200.8 | 0.10 | 1.0 | 02/14/11 | 02/15/11 | 0.26 | | |
| Arsenic | 200.8 | 1.0 | 1.0 | 02/14/11 | 02/15/11 | 1.0 | U | |
| Beryllium | 200.8 | 0.04 | 1.0 | 02/14/11 | 02/15/11 | 0.04 | U | |
| Cadmium | 200.8 | 0.04 | 1.0 | 02/14/11 | 02/15/11 | 0.07 | | |
| Chromium | 200.8 | 0.4 | 1.0 | 02/14/11 | 02/15/11 | 1.8 | | |
| Copper | 200.8 | 0.2 | 1.0 | 02/14/11 | 02/15/11 | 2.4 | | |
| Lead | 200.8 | 0.04 | 1.0 | 02/14/11 | 02/15/11 | 0.46 | | |
| Mercury | 245.1 | 0.2 | 1.0 | 02/04/11 | 02/07/11 | 0.2 | U | |
| Nickel | 200.8 | 0.4 | 1.0 | 02/14/11 | 02/15/11 | 1.4 | | |
| Selenium | 200.8 | 2.0 | 1.0 | 02/14/11 | 02/15/11 | 2.0 | U | |
| Silver | 200.8 | 0.04 | 1.0 | 02/14/11 | 02/15/11 | 0.04 | U | |
| Thallium | 200.8 | 0.04 | 1.0 | 02/14/11 | 02/15/11 | 0.04 | U | |
| Tin | 200.8 | 0.2 | 1.0 | 02/14/11 | 02/15/11 | 1.1 | | |
| Zinc | 200.8 | 1.0 | 1.0 | 02/14/11 | 02/15/11 | 34.1 | | |

Comments:

## Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

| | | | |
|---|---|---|---|
| Client: | Georgia-Pacific Consumer Product | Service Request: | K1100772 |
| Project No.: | NA | Date Collected: | 01/27/11 |
| Project Name: | Wauna Priority Pollutants | Date Received: | 01/28/11 |
| Matrix: | WATER | Units: | ug/L |
| | | Basis: | NA |

Sample Name: Final Effluent  Lab Code: K1100772-006DISS

| Analyte | Analysis Method | MRL | Dilution Factor | Date Extracted | Date Analyzed | Result | C | Q |
|---|---|---|---|---|---|---|---|---|
| Antimony | 200.8 | 0.10 | 1.0 | 02/14/11 | 02/15/11 | 0.28 | | |
| Arsenic | 200.8 | 1.0 | 1.0 | 02/14/11 | 02/15/11 | 1.0 | U | |
| Beryllium | 200.8 | 0.04 | 1.0 | 02/14/11 | 02/15/11 | 0.04 | U | |
| Cadmium | 200.8 | 0.04 | 1.0 | 02/14/11 | 02/15/11 | 0.06 | | |
| Chromium | 200.8 | 0.4 | 1.0 | 02/14/11 | 02/15/11 | 1.6 | | |
| Copper | 200.8 | 0.2 | 1.0 | 02/14/11 | 02/15/11 | 2.2 | | |
| Lead | 200.8 | 0.04 | 1.0 | 02/14/11 | 02/15/11 | 0.39 | | |
| Mercury | 245.1 | 0.2 | 1.0 | 02/04/11 | 02/07/11 | 0.2 | U | |
| Nickel | 200.8 | 0.4 | 1.0 | 02/14/11 | 02/15/11 | 1.2 | | |
| Silver | 200.8 | 0.04 | 1.0 | 02/14/11 | 02/15/11 | 0.04 | U | |
| Thallium | 200.8 | 0.04 | 1.0 | 02/14/11 | 02/15/11 | 0.04 | U | |
| Tin | 200.8 | 0.2 | 1.0 | 02/14/11 | 02/15/11 | 1.5 | | |
| Zinc | 200.8 | 1.0 | 1.0 | 02/14/11 | 02/15/11 | 15.7 | | |

Comments:

## Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

| | | | |
|---|---|---|---|
| Client: | Georgia-Pacific Consumer Product | Service Request: | K1100772 |
| Project No.: | NA | Date Collected: | |
| Project Name: | Wauna Priority Pollutants | Date Received: | |
| Matrix: | WATER | Units: | ug/L |
| | | Basis: | NA |

Sample Name: Method Blank  Lab Code: K1100772-MB

| Analyte | Analysis Method | MRL | Dilution Factor | Date Extracted | Date Analyzed | Result | C | Q |
|---|---|---|---|---|---|---|---|---|
| Aluminum | 200.8 | 2.0 | 1.0 | 02/14/11 | 02/15/11 | 2.0 | U | |
| Antimony | 200.8 | 0.05 | 1.0 | 02/14/11 | 02/15/11 | 0.05 | U | |
| Arsenic | 200.8 | 0.5 | 1.0 | 02/14/11 | 02/15/11 | 0.5 | U | |
| Beryllium | 200.8 | 0.02 | 1.0 | 02/14/11 | 02/15/11 | 0.02 | U | |
| Cadmium | 200.8 | 0.02 | 1.0 | 02/14/11 | 02/15/11 | 0.02 | U | |
| Chromium | 200.8 | 0.2 | 1.0 | 02/14/11 | 02/15/11 | 0.2 | U | |
| Copper | 200.8 | 0.1 | 1.0 | 02/14/11 | 02/15/11 | 0.1 | U | |
| Lead | 200.8 | 0.02 | 1.0 | 02/14/11 | 02/15/11 | 0.02 | U | |
| Mercury | 245.1 | 0.2 | 1.0 | 02/04/11 | 02/07/11 | 0.2 | U | |
| Nickel | 200.8 | 0.2 | 1.0 | 02/14/11 | 02/15/11 | 0.2 | U | |
| Selenium | 200.8 | 1.0 | 1.0 | 02/14/11 | 02/15/11 | 1.0 | U | |
| Silver | 200.8 | 0.02 | 1.0 | 02/14/11 | 02/15/11 | 0.02 | U | |
| Thallium | 200.8 | 0.02 | 1.0 | 02/14/11 | 02/15/11 | 0.02 | U | |
| Tin | 200.8 | 0.1 | 1.0 | 02/14/11 | 02/15/11 | 0.1 | U | |
| Zinc | 200.8 | 0.5 | 1.0 | 02/14/11 | 02/15/11 | 0.5 | U | |

Comments: